



Sarvajanik University  
Sarvajanik College of Engineering & Technology, Surat



**INDUSTRIAL VISIT REPORT**  
**ON**  
**M/s SHREE RAM ENGINEERS**  
**ORGANIZED BY**  
**MECHANICAL ENGINEERING DEPARTMENT**

**Place of Visit:** M/s SHREE RAM ENGINEERS, C-65/66, Laxminarayan Industrial Park, Opp. Daxeshwar BRTS, Udhna Navsari Road, Surat-395002, Gujarat.

**Date of Visit:** 17<sup>th</sup> November, 2025

**Target Students:** B.Tech. 4<sup>th</sup> Year Students

**Faculties attended:** Prof. (Dr.) Piyush T. Patel , Prof. Nilesh Patel

**ABOUT M/s SHREE RAM ENGINEERS:**

M/s Shreeram Engineers, founded in 1994 by Mr. Rakesh Panchal, has established itself as a leading provider of precision components, high-tech machine spares, and customized engineering solutions. With a strong commitment to quality and continuous innovation, the company has built a solid reputation for delivering superior products and reliable services. Leveraging decades of industry experience and state-of-the-art technology, Shreeram Engineers consistently meets the evolving needs of its customers and exceeds expectations. The company continues to advance on its journey of innovation and engineering excellence.



**PURPOSE OF THE VISIT:**

The purpose of the visit to M/s Shreeram Engineers was to provide students with practical exposure to precision component manufacturing and industrial machining processes, as well as to observe real-time operations of CNC machines, conventional machining setups, and quality inspection procedures.

**OUTLINES OF THE VISIT:**

The industrial visit to M/s Shree Ram Engineers provided students with a structured and comprehensive understanding of CNC machine working processes. The visit began with an introduction to the company's background, core operations, and its role in precision component manufacturing.

## INDUSTRIAL VISIT REPORT

Students were first briefed on essential shop-floor safety practices and standard operating procedures. The visit continued with an overview of raw material handling, preparation, and pre-machining inspection methods. Industry experts then explained the fundamentals of CNC technology, different types of CNC machines used such as turning and milling centers, and the importance of tooling, machine components, and CNC controllers.



Students also had the opportunity to see various job work operations performed on advanced CNC machines, including 3-axis VMC machines (HYUNDAI, DOOSAN, LMW, JYOTI), 5-axis VMC machines (LMW, JYOTI, BROTHER), turn-mill centers with Y-axis and sub-spindle (DOOSAN, LMW), turning centers (LMW, JYOTI), CNC bandsaw machines (LAXSON), and CNC wire cut machines (CONCORD). A live demonstration allowed students to observe machine setup, workpiece alignment, tool offsetting, and execution of a CNC machining cycle, along with explanations on cutting parameters like speed, feed, and depth of cut. They were also introduced to CNC programming concepts, including G-code, M-code, and the use of CAM software for simulation.



The visit further included exposure to quality inspection techniques using precision instruments and metrology equipment to ensure dimensional accuracy and surface finish. The session concluded with an interactive discussion with industry professionals on modern machining trends, automation, and career opportunities. Overall, the visit offered valuable practical insights into the complete CNC machining workflow and its significance in modern manufacturing.



## INDUSTRIAL VISIT REPORT



All the students expressed their thanks for organizing such an industrial visit for the enrichment of their knowledge.

### OUTCOMES OF THE VISIT:

During the visit to M/s Shree Ram Engineers, students gained practical exposure to advanced CNC machining operations, observing real-time processes on 3-axis and 5-axis VMC machines, turn-mill centers, turning centers, CNC bandsaw, and CNC wire-cut machines.

They learned key aspects of machine setup, including workpiece alignment, tool offsetting, and execution of machining cycles, while also understanding essential cutting parameters such as spindle speed, feed rate, and depth of cut. The visit enhanced their knowledge of CNC programming through insights into G-codes, M-codes, and toolpath generation, along with the use of CAM software for simulation and optimization. Overall, the experience strengthened their understanding of precision manufacturing practices and modern machining workflows.

We are sincerely thankful to the management and staff members for their generous cooperation, and willingness to share their knowledge and experience with us throughout the visit. We express our sincere thanks to Hon. Director of industry and Hon. Principal **Dr. Hiren Patel (SCET)** for permitting the visit. We also thank to **Dr. Pankaj Gohil** (Head of the Mechanical Department, SCET) for all kinds of support extended and for encouraging us.

**Report Prepared and Compiled by:**  
Prof. (Dr.) Piyush T. Patel,  
Prof. Nilesh Patel.